



PCT

RAW SEQUENCE LISTING

DATE: 02/22/2005

PATENT APPLICATION: US/10/523,329

TIME: 08:55:02

Input Set : A:\AL-11-C1-PCT.ST25.txt

Output Set: N:\CRF4\02222005\J523329.raw

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3 <110> APPLICANT: Jardetzky, Theodore S.
4      Wurzburg, Beth A.
6 <120> TITLE OF INVENTION: MUTANTS OF IgE PROTEINS AND USES THEREOF
8 <130> FILE REFERENCE: AL-11-C1-PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/523,329
C--> 11 <141> CURRENT FILING DATE: 2005-02-01
13 <150> PRIOR APPLICATION NUMBER: 60/319,446
14 <151> PRIOR FILING DATE: 2002-08-02
16 <150> PRIOR APPLICATION NUMBER: 10/211,948
17 <151> PRIOR FILING DATE: 2002-08-01
19 <160> NUMBER OF SEQ ID NOS: 49
21 <170> SOFTWARE: PatentIn version 3.2
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 669
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
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30 <221> NAME/KEY: CDS
31 <222> LOCATION: (1)..(666)
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35 Ala Asp Pro Cys Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser
36 1          5          10          15
38 cgg ccc agc ccg ttc gac ctg ttc atc cgc aag tcg ccc acg atc acc      96
39 Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr
40          20          25          30
42 tgt ctg gtg gtg gac ctg gca ccc agc aag ggg acc gtg aac ctg acc      144
43 Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr
44          35          40          45
46 tgg tcc cgg gcc agt ggg aag cct gtg aac cac tcc acc aga aag gag      192
47 Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu
48          50          55          60
50 gag aag cag cgc aat ggc acg tta acc gtc acg tcc acc ctg ccg gtg      240
51 Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val
52 65          70          75          80
54 ggc acc cga gac tgg atc gag ggg gag acc tac cag tgc agg gtg acc      288
55 Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr
56          85          90          95
58 cac ccc cac ctg ccc agg gcc ctc atg cgg tcc acg acc aag acc agc      336
59 His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser
60          100          105          110
62 ggc ccg cgt gct gcc ccg gaa gtc tat gcg ttt gcg acg ccg gag tgg      384
63 Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu Trp

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64          115          120          125
66 ccg ggg agc cgg gac aag cgc acc ctc gcc tgc ctg atc cag aac ttc      432
67 Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn Phe
68          130          135          140
70 atg cct gag gac atc tcg gtg cag tgg ctg cac aac gag gtg cag ctc      480
71 Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln Leu
72 145          150          155          160
74 ccg gac gcc cgg cac agc acg acg cag ccc cgc aag acc aag ggc tcc      528
75 Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly Ser
76          165          170          175
78 ggc ttc ttc gtc ttc agc cgc ctg gag gtg acc agg gcc gaa tgg gag      576
79 Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp Glu
80          180          185          190
82 cag aaa gat gag ttc atc tgc cgt gca gtc cat gag gca gcg agc ccc      624
83 Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser Pro
84          195          200          205
86 tca cag acc gtc cag cga gcg gtg tct gta aat ccc ggt aaa tga      669
87 Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
88          210          215          220
91 <210> SEQ ID NO: 2
92 <211> LENGTH: 222
93 <212> TYPE: PRT
94 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 2
98 Ala Asp Pro Cys Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser
99 1          5          10          15
102 Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr
103          20          25          30
106 Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr
107          35          40          45
110 Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu
111          50          55          60
114 Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val
115 65          70          75          80
118 Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr
119          85          90          95
122 His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser
123          100          105          110
126 Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu Trp
127          115          120          125
130 Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn Phe
131          130          135          140
134 Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln Leu
135 145          150          155          160
138 Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly Ser
139          165          170          175
142 Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp Glu
143          180          185          190
146 Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser Pro

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Input Set : A:\AL-11-C1-PCT.ST25.txt

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147          195          200          205
150 Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
151      210          215          220
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157 <213> ORGANISM: Artificial sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Synthetic Primer
162 <400> SEQUENCE: 3
163 tagggctacg tagattccaa cccgagagg                29
166 <210> SEQ ID NO: 4
167 <211> LENGTH: 43
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Synthetic Primer
174 <400> SEQUENCE: 4
175 actggctcga gaccagggtca gctgcacggg ccccttgctg ggt                43
178 <210> SEQ ID NO: 5
179 <211> LENGTH: 53
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: Synthetic Primer
186 <400> SEQUENCE: 5
187 cctgggtctcg agccagtggg aagcctgtgc aacactccac cagaaaggag gag                53
190 <210> SEQ ID NO: 6
191 <211> LENGTH: 39
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Synthetic Primer
198 <400> SEQUENCE: 6
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203 <211> LENGTH: 672
204 <212> TYPE: DNA
205 <213> ORGANISM: Homo sapiens
208 <220> FEATURE:
209 <221> NAME/KEY: CDS
210 <222> LOCATION: (1)..(672)
212 <400> SEQUENCE: 7
213 gcg gat ccc tgt gcg gat tcc aac ccg aga ggg gtg agc gcc tac cta                48
214 Ala Asp Pro Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu
215 1          5          10          15
217 agc cgg ccc agc ccg ttc gac ctg ttc atc cgc aag tcg ccc acg atc                96
218 Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile
219          20          25          30

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Input Set : A:\AL-11-C1-PCT.ST25.txt

Output Set: N:\CRF4\02222005\J523329.raw

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221 acc tgt ctg gtg gtg gac ctg gca ccc agc aag ggg acc gtg cag ctg      144
222 Thr Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Gln Leu
223      35      40      45
225 acc tgg tcc cgg gcc agt ggg aag cct gtg caa cac tcc acc aga aag      192
226 Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Gln His Ser Thr Arg Lys
227      50      55      60
229 gag gag aag cag cgc aat ggc acg tta acc gtc acg tcc acc ctg ccg      240
230 Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro
231      65      70      75      80
233 gtg ggc acc cga gac tgg atc gag ggg gag acc tac cag tgc agg gtg      288
234 Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val
235      85      90      95
237 acc cac ccc cac ctg ccc agg gcc ctc atg cgg tcc acg acc aag acc      336
238 Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr
239      100      105      110
241 agc ggc ccg cgt gct gcc ccg gaa gtc tat gcg ttt gcg acg ccg gag      384
242 Ser Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu
243      115      120      125
245 tgg ccg ggg agc cgg gac aag cgc acc ctc gcc tgc ctg atc cag aac      432
246 Trp Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn
247      130      135      140
249 ttc atg cct gag gac atc tcg gtg cag tgg ctg cac aac gag gtg cag      480
250 Phe Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln
251      145      150      155      160
253 ctc ccg gac gcc cgg cac agc acg acg cag ccc cgc aag acc aag ggc      528
254 Leu Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly
255      165      170      175
257 tcc ggc ttc ttc gtc ttc agc cgc ctg gag gtg acc agg gcc gaa tgg      576
258 Ser Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp
259      180      185      190
261 gag cag aaa gat gag ttc atc tgc cgt gca gtc cat gag gca gcg agc      624
262 Glu Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser
263      195      200      205
265 ccc tca cag acc gtc cag cga gcg gtg tct gta aat ccc ggt aaa tga      672
266 Pro Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
267      210      215      220
270 <210> SEQ ID NO: 8
271 <211> LENGTH: 223
272 <212> TYPE: PRT
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 8
277 Ala Asp Pro Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu
278      1      5      10      15
281 Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile
282      20      25      30
285 Thr Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Gln Leu
286      35      40      45
289 Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Gln His Ser Thr Arg Lys
290      50      55      60

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TIME: 08:55:02

Input Set : A:\AL-11-C1-PCT.ST25.txt

Output Set: N:\CRF4\02222005\J523329.raw

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293 Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro
294 65          70          75          80
297 Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val
298          85          90          95
301 Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr
302          100         105         110
305 Ser Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu
306          115         120         125
309 Trp Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn
310          130         135         140
313 Phe Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln
314 145          150          155          160
317 Leu Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly
318          165         170         175
321 Ser Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp
322          180         185         190
325 Glu Gln Lys Asp Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser
326          195         200         205
329 Pro Ser Gln Thr Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys
330          210         215         220
333 <210> SEQ ID NO: 9
334 <211> LENGTH: 44
335 <212> TYPE: DNA
336 <213> ORGANISM: Artificial sequence
338 <220> FEATURE:
339 <223> OTHER INFORMATION: Synthetic Primer
341 <400> SEQUENCE: 9
342 tagggcggat ccctgtgcag attcgaaccc gagaggggtg agcg          44
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346 <211> LENGTH: 663
347 <212> TYPE: DNA
348 <213> ORGANISM: Homo sapiens
351 <220> FEATURE:
352 <221> NAME/KEY: CDS
353 <222> LOCATION: (1)..(663)
355 <400> SEQUENCE: 10
356 tgt gcg gat tcc aac ccg aga ggg gtg agc gcc tac cta agc cgg ccc          48
357 Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro
358 1          5          10          15
360 agc ccg ttc gac ctg ttc atc cgc aag tcg ccc acg atc acc tgt ctg          96
361 Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu
362          20          25          30
364 gtg gtg gac ctg gca ccc agc aag ggg acc gtg aac ctg acc tgg tcc          144
365 Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser
366          35          40          45
368 cgg gcc agt ggg aag cct gtg aac cac tcc acc aga aag gag gag aag          192
369 Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu Glu Lys
370          50          55          60
372 cag cgc aat ggc acg tta acc gtc acg tcc acc ctg ccg gtg ggc acc          240

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/523,329

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TIME: 08:55:03

Input Set : A:\AL-11-C1-PCT.ST25.txt
Output Set: N:\CRF4\02222005\J523329.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/523,329

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TIME: 08:55:03

Input Set : A:\AL-11-C1-PCT.ST25.txt

Output Set: N:\CRF4\02222005\J523329.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date